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Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2003021208	A	20030312	KR 20038628	A	20030211	200346 B

Priority Applications (No Type Date): KR 20038628 A 20030211

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2003021208	A		1 G06F-003/023	

Abstract (Basic): KR 2003021208 A

NOVELTY - An electronic **abacus** is provided to easily confirm and verify a process or a result of a calculation according to the movement of an **abacus bead** and to realize an **abacus** contest between users through the Internet.

DETAILED DESCRIPTION - A magnetic device(20) generating a magnetic field from the movement of each **bead** (3) is installed to front/read side of the **bead** (3). A plurality of **sensors** detects the movement of a **bead** (3) and a position of a cipher shaft(2) holding the **bead** (3) from the magnetic field. A transmitting device(50) analyzes the calculation information from a digital signal and transmits the calculation information after converting a signal **detected** by the **sensors** into the digital signal. A USB(Universal Serial Bus) port(60) transmits the analysis information according to the position of the cipher shaft and the movement of the **bead** (3) to a computer. The transmitting device(50) comprises an analog/digital converter(51), a data analyzer(52), and a USB controller(53).

pp; 1 DwgNo 1/10

Derwent Class: T01; T04

International Patent Class (Main): G06F-003/023

10/7/26 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015428545 **Image available**

WPI Acc No: 2003-490687/200346

Device for verifying calculation result through movement recognition of abacus

Patent Assignee: CHOI Y W (CHOI-I); EDUSERVE CO LTD (EDUS-N); KWON Y B (KWON-I)

Inventor: LEE H C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2003021207	A	20030312	KR 20038627	A	20030211	200346 B

Priority Applications (No Type Date): KR 20038627 A 20030211

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2003021207	A		1 G06F-003/023	

Abstract (Basic): KR 2003021207 A

NOVELTY - A device for verifying a calculation result through the movement recognition of an **abacus** is provided to easily confirm and verify a process or a result of a calculation by recognizing the movement of the **abacus** , converting the movement into a digital signal and transmitting it to a computer.

DETAILED DESCRIPTION - A board(20) includes a connection port by

installing to a bottom of an **abacus** frame(1). A plurality of **sensors detects** a position of a cipher shaft(2) and the movement of **beads** placed in the cipher shaft(2). A transmitting device(40) connected to the board(20) converts the signal **detected** by the **sensors** into the digital signal, analyzes the calculation information from the digital information and transmits the calculation information. The computer(50) displays the calculation information on a monitor screen by receiving the analyzed information from the transmitting device(40). The transmitting device(40) comprises an analog/digital converter(41), a data analyzer(42), and a USB(Universal Serial Bus) controller(43).

pp; 1 DwgNo 1/10

Derwent Class: T01; T04

International Patent Class (Main): **G06F-003/023**

10/7/27 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015268113 **Image available**

WPI Acc No: 2003-329042/200331

Abacus instruction apparatus for use as score board, has magnetic indicators which are manually moved over entire surface of board to indicate selected cell within indicating regions of board

Patent Assignee: LIANG G C (LIAN-I); GAN C L (GAN-I)

Inventor: LIANG G C; GAN C L

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020197590	A1	20021226	US 2002127652	A	20020422	200331 B
SG 100673	A1	20031226	SG 20012231	A	20010423	200414

Priority Applications (No Type Date): SG 20012231 A 20010423

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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US 20020197590	A1	28	G06C-001/00	
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SG 100673	A1		G09B-001/14	
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Abstract (Basic): US 20020197590 A1

NOVELTY - A rectangular board (100) has five different indicating regions (110-114) which are divided into cells. Each cell is marked with different decimal number. The magnetic indicators (120-122) mounted on the board, are moved over the entire surface of the board to indicate selected cell.

USE - For use as score board, display board, **counter** and calculator board.

ADVANTAGE - Allows both easy **detection** of the represented numbers as well as simple mechanical construction.

DESCRIPTION OF DRAWING(S) - The figure shows the front view of **abacus** instruction apparatus.

rectangular board (100)

indicating regions (110-114)

magnetic indicators (120-122)

pp; 28 DwgNo 1a/12

Derwent Class: P85

International Patent Class (Main): **G06C-001/00 ; G09B-001/14**

International Patent Class (Additional): **G09B-019/02**

10/7/28 (Item 8 from file: 350)